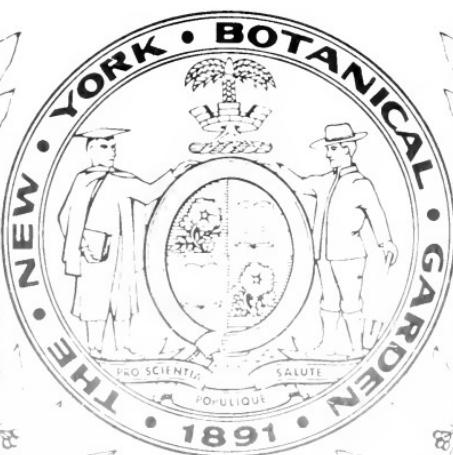


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FAMILY PERDIDAE: THE PARTRIDGES.

Sub-Family OPOONTOPHORINAE: American Partridges.

Ortyx virginiana, (Linn.), Bp. Bob-White; American Quail.—Formerly very numerous. They were found in considerable quantities up to the winter of 1878-9. The severe weather of that year destroyed many covies; since that time they have not increased much, if any in numbers.

It is very unsatisfactory to me, in studying the faunal changes of a locality, to find but a few notes in some local list of species. Thinking others may have found the same difficulty which I have encountered, I present above a compilation of my notes upon this subject. There is much more which I might include in this paper, but I have preferred to leave this with my notes on the other orders of our local fauna for a future article.

THE FLORA OF FRANKLIN COUNTY.—EXOGENS.

By O. M. MEYNCKE.

The following list embraces the indigenous, naturalized, and adventive plants growing in Franklin County, Indiana. The list is more especially confined to the territory within the immediate vicinity of the Town of Brookville.

The author set out with the determination to exclude all from the list which he himself had not seen growing in the County. Hence some species whose existence here was supported by good authority, and which fact the author was reasonably certain, were omitted on the principle that it is much easier afterwards to add to the list than to take from it. Though he has botanized in the region for several years, he feels sure that there are a number of plants growing in the limits which have not been noticed. With the exception of a partial list of the trees reported by Dr. Rufus Haymond (1869) in making the observations of the local Flora no support has been derived from a predecessor in this branch of natural history.

Observations on the Flora of this County are reserved for a future number of the Bulletin of the Brookville Society of Natural History.

As far as the Order Caprifoliaceae the nomenclature and arrangement corresponds with that of Watson's Bibliographical Index to North American Botany, thereafter with that given in the latest edition of Gray's Manual of the Northern United States.

Some of the more recent changes are indicated by the placing of the synonyms in parenthesis.

RANUNCULACEÆ, E. (Crowfoot Family).

CLEMATIS, L.

- C. Viorna, L. Leather-Flower. Frequent.
- C. Virginiana, L. Common Virgin's Bower.

ANEMONE, L.

- A. Virginiana, L. Virginian Anemone. Frequent.
- A. dichotoma, L. Pennsylvanian Anemone. Woods and Meadows. Common.
- A. acutiloba, Lawson. Sharp-lobed Hepatica. Common.

THALICTRUM, Tourn.

- T. anemonoides, Michx. Rue-Anemone. Common.
- T. dioicum, L. Early Meadow-Rue. Common in rocky woods.
- T. purpuraceum, L. Purple Meadow-Rue.
- T. Cornuti, L. Tall Meadow-Rue.

RANUNCULUS, L.

- R. abortivus, L. Small-flowered Crowfoot. Very common.
- R. abortivus, L., var. micranthus, Gr.
- R. recurvatus, Poir. Hooked Crowfoot.
- R. fascicularis, Muhl. Early Crowfoot. Very common.
- R. repens, L. Creeping Crowfoot. Common in damp places.

ISOPYRUM, L.

- I. biternatum, Torr. & Gray. False Rue-Anemone. Frequent in moist shady places.

CALTHA, L.

- C. palustris, L. Marsh Marigold. Rare.

AQUILEGIA, Tourn.

- A. Canadensis, L. Wild Columbine.

DELPHINIUM, Tourn.

- D. tricorne, Michx. Dwarf Larkspur. Very common.
- D. Consolida, L. Field Larkspur.

HYDRASTIS, L.

- H. Canadensis, L. Yellow-Root. Abundant.

ACTÆA, L.

- A. alba, Bigel. White Baneberry. Frequent.

CIMICIFUGA, L.

- C. racemosa, Nutt. Black Snakeroot. Common.

MAGNOLIACEÆ. (Magnolia Family).

MAGNOLIA, L.

M. acuminata, L. Cucumber-tree. Rare.

LIRIODENDRON, L.

L. Tulipifera, L. Tulip-tree. Common.

ANONACEÆ. (Custard-Apple Family).

ASIMINA, Adans.

A. triloba, Dunal. Common Pawpaw.

MENISPERMACEÆ. (Moonseed Family).

MENISPERNUM, L.

M. Canadensis, L. Common.

BERBERIDACEÆ. (Barberry Family).

BERBERIS, L.

B. vulgaris, L. Common Barberry.

JEFFERSONIA, Barton.

J. diphylla, Pers. Twin-leaf. Abundant.

PODOPHYLLUM, L.

P. peltatum, L. May Apple. Mandrake. Common.

PAPAVERACEÆ. (Poppy Family).

PAPAVER, L.

P. somniferum, L. Common Poppy. Spontaneous near dwellings.

STYLOPHORUM, Nutt.

S. diphyllum, Nutt. Celandine Poppy. Common.

SANGUINARIA, Dill.

S. Canadensis, L. Blood-root. Common.

FUMARIACEÆ. (Fumitory Family).

DICENTRA, Bork.

D. Cucullaria, D. C. Dutchmans Breeches. Common.

D. Canadensis, D. C. Squirrel-Corn.

CORYDALIS, Vent.

C. flavula, Raf. Pale Corydalis. Common.

FUMARIA, L.

F. officinalis, L. Common Fumitory. About dwellings.

CRUCIFERÆ. (Mustard Family).

NASTURTIUM, R. Br.

N. officinale, R. Br. Water Cress. Rare.

N. palustre, D. C. Marsh Cress. Common.

N. Armoracia, Fries. Horse Radish.

DENTARIA, L.

D. lacinata, Muhl. Cut-leaved Toothwort. Common.

CARDAMINE, L.

C. rhomboidea, D. C. Spring Cress. Common.

C. purpurea, Cham. & Schlecht. Purple Cress.

C. hirsuta, L. Small Bitter Cress. Not rare.

ARABIS, L.

A. dentata, Torr. & Gray.

A. levigata, D. C. Common.

A. Canadensis, L. Sickle-pod.

A. hesperidoides, Gr. Frequent.

SISYMBRIUM, L.

S. officinale, Scop. Hedge Mustard.

S. canescens, Nutt. Tansy Mustard. Frequent.

BRASSICA, Tourn.

B. Sinapistrum, Boissier. English Charlock. Common.

B. alba, Gr. White Mustard.

B. nigra, Gr. Black Mustard.

CAPSELLA, Vent.

C. Bursa-pastoris, Mœnch. Shepherd's Purse. Abundant.

LEPIDIUM, L.

L. Virginicum, L. Wild Pepper-grass. Common.

CAPPARIDACE.E. (Caper Family).

POLANISIA, Raf.

P. graveolens, Raf. Common along river banks.

VIOLACE.E. (Violet Family).

IONIDIUM.

I. concolor, Benth. & Hook. Green Violet. Frequent on rich hillsides.

VIOLA, L.

V. cucullata, Ait. Common Blue Violet.

V. cucullata, Ait., var. *palmata*, Gr. Hand-leaf Violet. Common.

V. striata, Ait. Pale Violet. Frequent.

V. pubescens, Ait. Downy Yellow Violet. Common.

V. tricolor, L., var., *arvensis*, Gr. Pansy, Hearts Ease.

POLYGALACE.E. (Milkwort Family).

POLYGALA, Tourn.

- P. Senega, L. Seneca Snakeroot.
P. Senega, L. var. latifolia, Torr. & Gray.

CARYOPHYLLACE.E. (Pink Family).

SAPONARIA, L.

- S. officinalis, L. Soapwort, Bouncing Bet. Common.

SILENE, L.

- S. stellata, Ait. Starry Campion. Frequent.
S. Virginica, L. Fire Pink. Common.
S. antirrhina, L. Sleepy Catchfly. Frequent.

LYCHNIS, Tourn.

- L. Githago, Lam. Corn Cockle. Common in grain fields.

ARENARIA, L.

- A. serpyllifolia, L. Thyme-leaved Sandwort.

STELLARIA, L.

- S. Media, Smith. Common Chickweed. Abundant.
S. pubera, Michx. Great Chickweed. Not common.

CERASTIUM, L.

- C. nutans, Raf. Common.
C. arvense, L. Field Chickweed. Common.

PARANYCHIE.E.

ANYCHIA, Michx.

- A. dichotoma, Michx. Forked Chickweed. Frequent in woods.

PORTULACACE.E. (Purslane Family).

PORTULACA, Tourn.

- P. oleracea, L. Common Purslane. Abundant.

CLAYTONIA, L.

- C. Virginica, L. Spring Beauty. Common.
C. Caroliniana, Michx.

HYPERICACE.E. (St. John's wort Family).

HYPERICUM, L.

- H. prolificum, L. Shrubby St. John's wort. Frequent on dry banks and in thickets.
H. perforatum, L. Common St. John's wort. Frequent in fields.
H. corymbosum, Muhl.
H. mutilum, L. Dwarf St. John's-wort. Common in low ground.

MALVACEÆ. (Mallow Family).

MALVA, L.

M. rotundifolia, L. Common Mallow.

SIDA, L.

S. spinosa, L. Common everywhere.

ABUTILON, Tourn.

A. Avicennæ, Gaertn. Velvet Leaf. Common.

TILIACEÆ. (Linden Family).

TILIA, L.

T. Americana, L. Basswood Linden. Common.

LINACEÆ. (Flax Family).

LINUM, L.

L. Virginicum, L. Wild Flax. Frequent in dense woods.
L. usitatissimum, L. Common Flax. Escaped cultivation.

GERANIACEÆ. (Geranium Family).

GERANIUM, L.

G. maculatum, L. Wild Geranium. Common.

IMPATIENS, L.

I. pallida, Nutt. Pale Touch-me-not. Common.
I. fulva, Nutt. Spotted Touch-me-not. Frequent.

OXALIS, L.

O. violacea, L. Violet Wood-sorrel.
O. corniculata, L., var. *stricta*, Sav. Yellow Wood-sorrel.
 Frequent.

RUTACEÆ. (Rue Family).

ZANTHOXYLUM, Colden.

Z. Americana, Mill. Northern Prickly Ash. Common.

PTELEA, L.

P. trifoliata, L. Shrubby Trefoil, Hop-tree. Common.

SIMARUBEÆ.

AILANTHUS, Desf.

A. grandulosus, Desf. Tree of Heaven.

ILICINEÆ. (Holly Family).

ILEX, L.

I. verticillata, Gr. Black Alder. Winter Berry. Rare.

CELASTRACEÆ. (Staff-tree Family).

CELASTRUS, L.

C. scandens, L. Waxwork, Climbing Bitter Sweet. Common.

EUONYMUS, Tourn.

E. atropurpureus, Jacq. Burning Bush. Waaho. Common.

E. Americanus, L., var. *obovatus*, Torr. & Gr. Frequent on rich hillsides.

RHAMNACEÆ. (Buckthorn Family).

RHAMNUS, Tourn.

R. lanceolatus, Pursh. Buckthorn. Rare.

VITACEÆ. (Vine Family).

VITUS, Tourn.

V. Labrusca, L. Northern Fox Grape. Rare.

V. aestivalis, Michx. Summer Grape. Common.

V. cordifolia, Michx. Winter or Frost Grape. Common.

AMPELOPSIS, Michx.

A. quinquefolia, Michx. Virginia Creeper. Common.

SAPINDACEÆ. (Soapberry Family).

STAPHYLEA, L.

S. trifolia, L. American Bladdernut. Not common.

ÆSCULUS, L.

A. glabra, Willd. Fetid or Ohio Buckeye. Common.

ACER, Tourn.

A. saccharinum, Wang. Sugar Maple. Abundant.

A. saccharinum, Wang, var. *nigrum*, Gr. Black Sugar Maple. Common.

A. dasycarpum, Ehrhart. White or Silver Maple. Common along streams.

A. rubrum, L. Red Maple. Common in wet woods.

NEGUNDO, Moench.

N. aceroides, Moench. Box Elder. Common.

ANACARDIACEÆ. (Cashew Family).

RHUS, L.

R. typhina, L. Staghorn Sumach. Common.

R. glabra, L. Smooth Sumach. Frequent.

R. copallina, L. Dwarf Sumach.

R. Toxicodendron, L. Poison Ivy. Common.

R. aromatica, Ait. Fragrant Sumach. Not rare.

LEGUMINOSÆ. (Pulse Family).

TRIFOLIUM, L.

- T. pratense, L. Red Clover.
- T. reflexum, L. Buffalo Clover.
- T. repens, L. White Clover.
- T. procumbens, L. Yellow or Hop-Clover. Frequent.

MELILOTUS, Tourn.

- M. alba, Lam. White Melilotus. Common.

MEDICAGO, L.

- M. lupulina, L. Black Medick.

AMORPHA, L.

- A. fruiticosa, L. False Indigo. Rare.

ROBINIA, L.

- R. Pseudacacia, L. Common Locust Tree.

ASTRAGALUS, L.

- A. Canadensis, L. Milk Vetch.

DESMODIUM, D. C.

- D. nudiflorum, D. C.
- D. acuminatum, D. C.
- D. pauciflorum, D. C.
- D. rotundifolium, D. C.
- D. canescens, D. C.
- D. cuspidatum, Torr. & Gr. Frequent.
- D. paniculatum, D. C.
- D. Canadense, D. C.

VICIA, Tourn.

- V. Caroliniana, Walt. Frequent on rocky hillsides.

ASPIOS, Boerhaave.

- A. tuberosa, Mœnch. Ground-nut.

PHASEOLUS, L.

- P. diversifolius, Pers. Kidney Bean. Common.

AMPHICARPÆA, Ell.

- A. monoica, Nutt. Hog Pea-nut.

BAPTISIA, Vent.

- B. leucantha, Torr. & Gr. False Indigo. Frequent on alluvial soil.

CERCIS, L.

- C. Canadensis, L. Red Bud. Common.

CASSIA, L.

- C.* *Marylandica*, L. Wild Senna. Common.
C. *chamaecrista*, L. Partridge Pea. Very common.

GAMNOCLADUS, Lam.

- G.* *Canadensis*, Lam. Kentucky Coffee Tree.

GLYPHICHLADA, L.

- G.* *triacanthas*, L. Honey Locust.

ROSACEAE. (Rose Family.)

PRUNUS, Tourn.

- P.* *Americana*, Marshall. Wild, Yellow or Red Plum. Common.
P. *serotina*, Ehrh. Wild Black Cherry.

NEELIA, Don.

- N.* *opulifolia*, Benth. & Hook. Nine-bark.

SPIREA, L.

- S.* *tomentosa*, L. Hardhack, Steeple Bush.

GEUM, L.

- G.* *album*, Gmelin. White Avens.
G. *Virginianum*, L.
G. *vernus*, Torr. & Gr.

POTENTILLA, L.

- P.* *Norvegica*, L.
P. *Canadensis*, L. Common Cinquefoil or Five Finger.

FRAGARIA, Tourn.

- F.* *Virginiana*, Duch. var. *Illinoensis*, Gr. Wild Strawberry.

RUBUS, Tourn.

- R.* *strigosus*, Michx. Wild Red Raspberry.
R. *occidentalis*, L. Black Raspberry. Common.
R. *villosus*, Ait. Common or High Blackberry.
R. *villosus*, Ait. var. *humifusus*, Gr.
R. *Canadensis*, L. Low Blackberry. Dewberry. Common.

ROSA, Tourn.

- R.* *setigera*, Michx. Climbing or Prairie Rose.
R. *lucida*, Ehrh. Dwarf Wild Rose. Frequent.
R. *rubiginosa*, L. Eglantine. Sweet Brier.

CRATAEGUS, L.

- C.* *coccinea*, L. Scarlet Fruited Thorn.
C. *tomentosa*, L. Black Thorn. Common.
C. *tomentosa*, L. var. *mollis*, Gr.
C. *Crus-galli*, L. Cockspur Thorn. Frequent.

PIRUS, L.

P. coronaria, L. American Crab Apple. Common.

AMELANCHIER, Medic.

A. Canadensis, Torr. & Gr. Service Berry. Not rare.

SAXIFRAGACEÆ. (Saxifrage Family).

RIBES, L.

R. Cynosbati, L. Wild Gooseberry. Common.

R. floridum, L'Her. Wild Black Currant. Rare

HYDRANGEA, Gronov.

H. arborescens, L. Wild Hydrangea. Frequent.

HEUCHERA, L.

H. Americana, L. Common Alum Root. Frequent in rocky woodlands.

CRASSULACEÆ. (Orpine Family).

PENTHORUM, Gronov.

P. sedoides, L. Ditch Stone Crop.

SEDMUM, Tourn.

S. ternatum, Michx. Stone Crop. Common.

S. Telephrinum, L. Live-for-ever. Escaped cultivation.

HAMAMELACEÆ. (Witch Hazel Family).

HAMAMELIS, L.

H. Virginica, L. Witch Hazel. Rare.

LIQUIDAMBER, L.

L. Styaciflua, L. Sweet Gum. Bilsted. Rather common in moist woods.

LYTHRACEÆ. (Loosestrife Family).

LYTHRUM, L.

L. alatum, Pursh. Loosestrife.

ONAGRACEÆ. (Evening Primrose Family).

CIRCÆA, Tourn.

C. Lutetiana, L. Enchanters Nightshade. Common in rich woods.

GAURA, L.

G. biennis, L., Gaura. Not common.

EPILOBIUM, L.

E. coloratum, Muhl. Willowherb.

ENOTHERA, L.

E. biennis, L. Evening Primrose. Very common in old fields.

LUDWIGIA, L.

L. *alternifolia*, L. Seed Box. Frequent.

L. *palustris*, Ell.

CURCUBITACEÆ. (Gourd Family).

STEVOS, L.

S. *angulatus*, L. One-seeded Star Cucumber. Common along river banks.

ECINOCACTUS, Torr. & Gr.

E. *lobata*, Torr. & Gr. Wild Balsam Apple. Common in rich soil along streams.

CACTACEÆ. (Cactus Family).

OPUNTIA, Tourn.

O. *vulgaris*, Haworth. Prickly Pear. Rare.

FICOIDÆ. (Carpet-weed Family).

MORRUGO, L.

M. *verticillata*, L. Carpet-weed.

UMBELLIFERÆ. (Parsley Family).

SANICULA, Tourn.

S. *Canadensis*, L. Sanicle. Black Snakeroot.

S. *Marylandica*, L.

DAUCUS, Tourn.

D. *Carota*, L. Common Carrot. Very abundant in old fields.

PASTINACA, Tourn.

P. *Sativa*, L. Common Parsnip. Abundant.

ARCHEMORA, D. C.

A. *rigida*, D. C. Cowbane.

THlaspium, Nutt.

T. *barbinode*, Nutt.

T. *aureum*, Nutt.

T. *trifoliatum*, Gr.

PIMPINELLA, Benth. & Hook.

P. *integerrima*, Benth. & Hook.

CRYPTOTENIA, D. C.

C. *Canadensis*, D. C. Honewort.

CHLOROPHYLLUM, L.

C. *procumbens*, Crantz. Chervil. Frequent.

OSMORRHIZA, Raf.

O. *longistylis*, D. C. Smoother Sweet Cicely. Frequent.

O. *brevistylis*, D. C. Hairy Sweet Cicely. Common.

CONIUM, L.

C. maculatum, L. Poison Hemlock. Not uncommon.

ERIGENIA, Nutt.

E. bulbosa, Nutt. Harbinger of Spring. Common.

ARALIACEÆ. (Ginseng Family).

ARALIA, Tourn.

A. spinosa, L. Angelica Tree. Heracles Club. Rare.

A. racemosa, L. Spikenard. Frequent.

A. quinquefolia, Dec. & Planch. Ginseng. Common.

CORNACEÆ. (Dogwood Family).

CORNUS, Tourn.

C. florida, L. Flowering Dogwood. Common.

C. sericea, L. Silky Cornel.

C. paniculata, L'Her. Panicled Cornel. Common in thickets and on river banks.

C. alternifolia, L. Alternate-leaved Cornel. Not common.

NYSSA, L.

N. multiflora, Wang. Tupelo. Black or Sour Gum. Common.

CAPRIFOLIACEÆ. (Honeysuckle Family).

SYMPHORICARPUS, Dill.

S. racemosus, Michx. Snowberry. Escaped cultivation.

S. vulgaris, Michx. Indian Currant. Coral Berry.

LONICERA, L.

L. sempervirens, Ait. Trumpet Honeysuckle.

TRIOSTEUM, L.

T. perfoliatum, L. Feverwort. Horse Gentian. Common in rich woods.

T. Augustifoliatum, L. Frequent.

SAMBUCUS, Tourn.

S. Canadensis, L. Common Elder.

VIBURNUM, L.

V. prunifolium, L. Black Haw. Common.

V. acerifolium, L. Maple-leaved Arrow-wood. Frequent.

V. dentatum, L. Arrow-wood. Frequent in wet places.

RUBIACEÆ. (Madder Family).

GALIUM, L.

G. Aparine, L. Cleavers. Goose-grass. Common.

G. trifidum, L. Small Bedstraw. Variable. Common.

G. triflorum, Michx. Sweet-scented Bedstraw.

G. circæzens, Michx. Wild Liquorice.

CEPHALANTHUS, L.

C. occidentalis, L. Button Bush. Frequent in wet places.

MICHELLIA, L.

M. repens, L. Partridge berry. Common in dense woods.

HOUTSONTIA, L.

H. purpurea, L. Common in woods and meadows.*H. cerulea*, L. Bluet. Abundant in moist fields.

VALEERIANACE, E. (Valerian Family).

VALERIANA, Tourn.

V. pauciflora, Michx. Small flowered Valerian. Common.

VALERIANELLA, (Fedia, Gaertn.)

V. radiata, (Fedia radiata, Michx.) Corn Salad. Lambs Lettuce. Frequent in moist soil.

DIPSACE, E. (Teasel Family).

DIPSACUS, Tourn.

D. sylvestris, Mill. Wild Teasel. Common.

COMPOSITE, E. (Composite Family).

VERNONIA, Schreb.

V. Noveboracensis, Willd. Iron Weed. Very common.*V. fasciculata*, Michx. Variable, passing into the above species.

KUHNIA, L.

K. eupatorioides, L.

EUPATORIUM, Tourn.

E. purpureum, L. Joe-Pye weed. Common.*E. altissimum*, L.*E. sessilifolium*, L. Upland Boneset. Not common.*E. perfoliatum*, L. Common Boneset.*E. ageratoides*, L. White Snake-root. Very common along rich hillsides.*E. cœlestinum*, L. (Conoclinium cœlestinum, D. C.) Mist Flower.

ASTER, L.

A. Shortii, Boott. Common.*A. undulatus*, L. Frequent.*A. cordifolius*, L. Common.*A. sagittifolius*, Willd.*A. ericoides*, L. Common.*A. ericoides*, L. var. *villosus*, Gr.*A. multiflorus*, Ait. Common in dry fields.*A. vimineus*, Lam. (A. *Tradescanti*, L.)*A. vimineus*, Lam. var. *foliolosus*, Gr. (A. *miser*, Ait.)

- A. *tenuifolius*, L.
- A. *puniceus*, L.
- A. *prenathoides*, Muhl.
- A. *Novaë-Angliae*, L.

ERIGERON, L.

- E. *Canadense*, L. Horse-weed. Butter-weed. Very common.
- E. *bellidifolium*, Muhl. Robin's Plantain. Common.
- E. *Philadelphicum*, L. Common Fleabane.
- E. *annum*, Pers. Daisy Fleabane. Sweet Scabious. Common.
- E. *Strigosum*, Muhl. Common.

SOLIDAGO, L. Golden-rod.

- S. *latifolia*, L.
- S. *caesia*, L. Common.
- S. *rugosa*, Mill. (S. *altissima*, L.)
- S. *ulmifolia*, Muhl. Frequent.
- S. *nemoralis*, Ait.
- S. *Canadensis*, L. Very common.
- S. *serotina*, Ait. (S. *gigantea*, Ait.)
- S. *serotina*, Ait. var. *gigantea*, Gr. (S. *serotina*, Ait.)
- S. *lanceolata*, L. Frequent.

INULA, L.

- I. *Helenium*, L. Common Elecampane.

POLYMNIA, L.

- P. *Canadensis*, L. Leaf-cup. Abundant along shady ravines.
- P. *Uvedalia*, L.

STELLIUM, L.

- S. *perfoliatum*, L. Cup-Plant. Not common.

AMBROSIA, Tourn.

- A. *trifida*, L. Great Ragweed. Very common.
- A. *trifida*, L. var. *integrifolia*, Gr.
- A. *artemisiæfolia*, L. Roman Wormwood. Bitterweed. Common everywhere.

XANTHIUM, Tourn.

- X. *Canadense*, Mill. (X. *strumarium*, L.) Common Cocklebur.
- X. *spinosum*, L. Spiny Clotbur. Rare.

HELIOPSIS, Pers.

- H. *levis*, Pers. var. *scabra*, Gr. Common in thickets.

ECHINACEA, Mœnch.

- E. *purpurea*, Mœnch. Purple Cone-Flower. Very rare.

RUDBECKIA, L.

- R. laciniata*, L. Cone Flower.
R. triloba, L. Common.
R. hirta, L. Very common in meadows.

HELIANTHUS, L.

- H. annus*, L. Common Sunflower. Escaped from cultivation.
H. parviflorus, Bernh. (*H. microcephalus*, Torr. & Gr.) Frequent in woods.
H. divaricatus, L.
H. decapetalus, L. Frequent.
H. tuberosus, L. (*H. doronicoides*, Lam.) Common.

ACTINOMERIS, Nutt.

- A. squarrosa*, Nutt. Common along streams.

COREOPSIS, L.

- C. tripteris*, L. Tall Coreopsis. Common.
C. trichosperma, Michx. Tickseed Sunflower.

BIDENS, L.

- B. frondosa*, L. Common Beggar-ticks.
B. connata, Muhl. Swamp Beggar-ticks.
B. chrysanthoides, Michx. Larger Bur-Marigold. Frequent.
B. cernua, L. Smaller Bur-Marigold.
B. bipinnata, L. Spanish Needles. Common.

VERBESINA, L.

- V. helianthoides*, Michx. (*Actinomeris helianthoides*, Nutt.)

DYSODIA, Car.

- D. chrysanthemoides*, Lag. Fetid Marigold.

HELENIUM, L.

- H. autumnale*, L. Sneeze-weed. Not common.

ANTHEMIS, L.

- A. Cotula*, L. (*Maruta Cotula*, D. C.) Common Mayweed.

ACHILLEA, L.

- A. Millefolium*, L. Common Yarrow or Milfoil.

CHRYSANTHEMUM, L.

- C. Leucanthemum*, L. (*Leucanthemum vulgare*, Lam.) Ox-eye, or White Daisy. Whiteweeds. Common.

TANACETUM, L.

- T. vulgare*, L. Common Tansy.

ARTEMISIA, L.

- A. biennis*, Willd. Biennial wormwood. Frequent.

GNAPHALIUM, L.

G. polyccephalum, Michx. Common Everlasting.

G. purpureum, L. Purple Cudweed.

ANTENNARIA, Gaertn.

A. plantaginifolia, Hook. Plantain-leaved Everlasting. Common.

ERECHTHITES, Raf.

E. hieracifolia, Raf. Fire-weed. Common.

CACALIA, L.

C. atriplicifolia, Muhl. Great Indian Plantain. Frequent in rich woods.

SENECIO, L.

S. aureus, L. Golden Ragwort. Very common.

S. aureus, L. var. *obovatus*, Torr. & Gr.

CNICUS, Vaill.

C. lanceolatus, Hoffm. (*Cirsium lanceolatum*, Scop.) Common Thistle.

C. altissimus, Willd. (*Cirsium altissimum*, Spreng.)

ARCTIUM, L.

A. Lappa, L. (*Lappa officinalis*, Allioni.) Common Burdock.

KRIGIA, Schreber.

K. amplexicaulis, Nutt. (*Cynthia Virginica*, Don.) Dwarf Dandelion. Cynthia. Frequent.

HIERACIUM, Tourn.

H. scabrum, Michx., Rough Hawk-weed.

PRENANTHES.

P. crepidinea, Michx. (*Nabalus crepidinea*, Cass.) Rattlesnake-root. Not common.

TARAXACUM, Haller,

T. officinale, Weber. (*T. Densleonis*, Desf.) Common Dandelion.

LACTUCA, Tourn.

L. Canadensis, L. Wild Lettuce.

L. integrifolia, Bigel. (*L. Canadensis*, L. var. *integrifolia*, Torr. & Gr.)

L. Floridana, Gaertn. (*Mulgedium Floridanum*, D. C.)

SONCHUS, L.

S. oleraceus, L. Common Sow Thistle.

S. asper, Vill. Spiny-leaved Sow Thistle.

LOBELIACEÆ. (Lobelia Family).

LOBELIA, L.

- L. *cardinalis*, L. Cardinal Flower. Rare.
- L. *siphilitica*, L. Great Lobelia. Common.
- L. *inflata*, L. Indian Tobacco. Very abundant.
- L. *spicata*, Lam. Not common.

CAMPANULACEÆ. (Campanula Family).

CAMPANULA, Tourn.

- C. *Americana*, L. Tall Bellflower. Common.

SPECULARIA, Heister.

- S. *perfoliata*, A. D. C. Venus Looking Glass. Common.

ERICACEÆ. (Heath Family).

CHIMAPHILA, Pursh.

- C. *maculata*, Pursh. Spotted Wintergreen. Not common.

MONOTROPA, L.

- M. *uniflora*, L. Indian Pipe. Corpse Plant. Frequent.
- M. *Hypopitys*, L. Pine-sap. False Beech-drops. Rare.

AQUIFOLIACEÆ. (Holly Family).

ILEX, L.

- I. *verticillata*, Gr. Black Alder. Winterberry.

EBENACEÆ. (Ebony Family).

DIOSPYROS, L.

- D. *Virginiana*, L. Common Persimmon.

PLANTAGINACEÆ. (Plantain Family).

PLANTAGO, L.

- P. *major*, L. Common Plantain.
- P. *lanceolata*, L. Rib-grass. Ripple-grass. English Plantain. Common.
- P. *Virginica*, L. Frequent.

PRIMULACEÆ. (Primrose Family).

DODECATHEON, L.

- D. *Meadia*, L. Shooting Star. American Cowslip.

LASIMACHIA, Tourn.

- L. *quadrifolia*, L.
- L. *nummularia*, L. Moneywort. Escaped cultivation.

STERONEMA, Raf.

- S. *lanceolatum*, Walt.
- S. *lanceolatum*, Walt. var. *augustifolia*, Gr.

MIMULUS, L.

S. *valerandi*, L. var. *Americanus*, Gr. Water Pimpernel. Brook-weed. Not common.

BIGNONIACEÆ. (Bignonian Family).*TECOMA*, Juss.

T. *radicans*, Juss. Trumpet Creeper. Frequent.

CATALPA, Scop. Walt.

C. *bignonioides*, Walt. Catalpa. Indian Bean. Frequent.

MARLYNIA, L.

M. *proboscidea*, Gloc. Unicorn Plant. Rare.

OROBANCHACEÆ. (Broom-rape Family).*EPIMEGUS*, Nutt.

E. *Virginica*, Bart. Beech-drops. Common.

CONOPHALIA, Wallroth. Squaw-root. Cancer-root. Common.*SCROPHULARICEÆ*. (Figwort Family).*VERBASCUM*, L.

V. *Thapsus*, L. Common Mullein.

V. *Blattaria*, L. Moth Mullein. Common.

LINARIA, Tourn.

L. *vulgaris*, Mill. Toad-flax. Butter and Eggs.

SCROPHULARIA, Tourn.

S. *nodosa*, L. Figwort. Common.

COLLINSIA, Nutt.

C. *verna*, Nutt. Collinsia. Innocence. Not common.

PENTSTEMON, Mitchell.

P. *pubescens*, Solander. Common.

MIMULUS, L.

M. *ringens*, L. Monkey Flower.

M. *alatus*, Ait.

CONOBEA, Aublet.

C. *multifida*, Benth.

GRATIOLA, L.

G. *Virginiana*, L. Common.

G. *sphaerocarpa*, Ell. Rare.

ILYSANTHES, Raf.

I. *gratioloides*, Benth. False Pimpernel.

VERONICA, L.

- V. Virginica, L. Culvers root. Culvers Physic.
- V. Americana, Schweinitz. American Brooklime.
- V. serpyllifolia, L. Thyme leaved Speedwell.
- V. peregrina, L. Neckweed. Purslane Speedwell.
- V. arvensis, L. Corn Speedwell.

SEMAPHYLLUM, Pursh.

- S. macrophylla, Nutt. Mullein Foxglove. Common.

GERARDIA, L.

- G. purpurea, L. Purple Gerardia.
- G. tenuifolia, Vahl. Slender Gerardia.
- G. quercifolia, Pursh. Smooth False Foxglove.

PRIMULARIS, Tourn.

- P. Canadensis, L. Common Lousewort. Wood Betony.

ACANTHACE.E. (Acanthus Family).

DIANTHERA, Gronov.

- D. Americana, L. Water willow. Common along the river, growing in water.

RUELLIA, L.

- R. strepens, L. Common.

VERBENACE.E. (Vervian Family).

VERBENA, L.

- V. angustifolia, Michx.
- V. hastata, L. Blue Vervain. Very common.
- V. utricifolia, L. Nettle-leaved, or White Vervain. Very common.
- V. stricta, Vent. Hoary Vervain.
- V. Aubletia, L. Escaped cultivation.

LIPPIA, L.

- L. lanceolata, Michx. Fog-fruit. Frequent on river banks.

LABIATE. (Mint Family).

TEUCRIUM, L.

- T. Canadense, L. American Germander. Wood Sage.

ISANTHES, Michx.

- I. Coeruleus, Michx. Common.

MENTHA, L.

- M. viridis, L. Spearmint.
- M. piperata, L. Peppermint.
- M. Canadensis, L. Wild Mint.

PYCANTHIUM, Michx.

P. linifolium, Pursh. Mountain Mint. Frequent on clay soil.

CALAMINTHA, Moench.

C. Nepeta, Link. Basil-Thyme.

HEDEOMA, Pers.

H. pulegioides, Pers. American Pennyroyal. Common.

COLLINSONIA, L.

C. Canadensis, L. Rich-weed. Stone-root.

MONARDA, L.

M. fistulosa, L. Wild Bergamot. Common.

M. Bradburiana, Beck.

BLEPHILLA, Raf.

B. hirsuta, Benth.

LOPANTHUS, Benth.

L. nepetoides, Benth. Giant Hyssop. Common.

NEPETA, L.

N. Cataria, L. Catnip. Very common.

N. Glechoma, Benth. Ground Ivy. Gill. Very abundant.

SYNANDRA, Nutt.

S. grandiflora, Nutt. Abundant in rich woods.

PHYSOTEGIA, Benth.

P. Virginiana, Benth. False Dragon-head. Frequent.

BRUNELLA, Tourn.

B. vulgaris, L. Common Self-heal or Heal-all.

SCUTELLARIA, L.

S. versicolor, Nutt. Skull-cap. Common.

S. canescens, Nutt.

MARRUBIUM, L.

M. vulgare, L. Common Horehound.

GALEOPSIS, L.

G. Tretahit, L. Common Hemp-Nettle.

STACHYS, L.

S. palustris, L. Hedge Nettle.

S. aspera, Michx.

S. cordata, Riddell.

LEONURUS, L.

L. cardiaca, L. Common Motherwort.

LAMIUM, L.

L. amplexicaule, L. Dead Nettle. Frequent.

BORAGINACEÆ. (Borage Family).

LITHOSPERMUM, Tourn.

L. officinale, L. Common Gromwell.

L. latifolium, Michx.

MERTENSIA, Roth.

M. Virginica, D. C. Virginian Cowslip. Lungwort. Common.

MYOSOTIS, L.

M. verna, Nutt. Forget-me-not.

ECHINOSPERMUM, Swartz.

E. Lappula, Lehm.

E. Virginicum, Lehm. (*Cynoglossum Morisoni*, D. C.) Beggar's Lice. Very common.

CYNOGLOSSUM, Tourn.

C. officinale, L. Common Hound's Tongue.

C. Virginicum, L. Wild Comfrey.

HYDROPHYLLACEÆ. (Waterleaf Family).

HYDROPHYLLUM, L.

H. macrophyllum, Nutt. Common.

H. Virginicum, L. Frequent.

H. apendiculatum, Michx.

PHACELIA, L.

P. bipinnatifida, Michx. Common.

P. Purshii, Buckley. "Miami Mist." Very common.

POLEMONIACEÆ. (Polemonium Family).

POLEMONIUM, Tourn.

P. reptans, L. Greek Valerian. Common.

PHLOX, L.

P. divaricata, L. Common Phlox.

P. paniculata, L. Cultivated.

CONVOLVULACEÆ. (Convolvulus Family).

IPOMEA, L.

I. purpurea, Lam. Common Morning Glory.

I. Nil, Roth. Smaller Morning Glory. Frequent.

I. lacunosa, L.

I. pandurata, Meyer. Wild Potato Vine. Man-of-the-Earth. Common.

CONVOLVULUS, L.

C. sepium, L. (*Calystegia sepium*, R. Br.) Common along river banks.

CUSCUTA, Tourn.

C. Gronovii, Willd. Dodder. Common on low grounds.

SOLANACEÆ. (Nightshade Family).

SOLANUM, Tourn.

S. nigrum, L. Common Nightshade.

S. Carolinense, L. Horse Nettle. Common.

PHYSALIS, L.

P. pubescens, L.

P. Virginica, Mill. (P. viscosa, L.)

P. lanceolata. (P. Pennsylvanica.)

NICANDRA, Adams.

N. physaloides, Gaertn. Apple of Peru. Frequent.

DATURA, L.

D. Stramonium, L. Thorn Apple. Jamestown-weed.

D. Tatula, L. Purple Thorn Apple. More abundant than the other species.

GENTIANACEÆ. (Gentian Family).

SABBATIA, Adams.

S. angularis, Pursh. Not common.

FRASERA, Walt.

F. Carolinensis, Walt. American Columbo. Common on dry hilly points.

GENTIANA, L.

G. quinqueflora, Lam. Five Flowered Gentian. Not common.

G. Andrewsii, Griseb. Closed Gentian. Not common.

APOCYNACEÆ. (Dogbane Family).

APOCYNUM, Tourn.

A. cannabinum, L. Indian Hemp. Common.

A. cannabinum, L. var. hypercifolium, Gr.

ASCLEPIADACEÆ. (Milkweed Family).

ASCLEPIAS, L.

A. Cornuti, Descainse. Common Milkweed. Silkweed.

A. phytolaccoides, Pursh. Poke Milkweed.

A. purpurascens, L. Purple Milkweed. Frequent.

A. quadrifolia, Jacq. Four-leaved Milkweed. Common in the woods.

A. incarnata, L. Swamp Milkweed. Common.

A. tuberosa, L. Butterflyweed. Pleurisy-root. Common.

ENSELINA, Nutt.

E. albida, Nutt. Common along river banks.

OLEACEÆ. (Olive Family).

FRAXINUS, Tourn.

- F. Americana, L. White or Gray Ash. Very common.
- F. viridis, Michx. Green Ash. Frequent along streams.
- F. sambucifolia, Lam. Black or Water Ash.
- F. quadrangulata, Michx. Blue Ash. Common.

ARISTOLOCHIACEÆ. (Birthwort Family).

ASARUM, Tourn.

- A. Canadense, L. Wild Ginger. Abundant on rich hillsides.

PHYTOLACCACEÆ. (Pokeweed Family).

PHYTOLACCA, Tourn.

- P. decandra. Common Poke or Scoke. Garget. Pigeon Berry.

CHENOPODIACEÆ. (Goosefoot Family).

CHENOPodium, L.

- C. album, L. Lamb's Quarter. Common.
- C. Botrys, L. Jerusalem Oak. Feather Geranium.

AMARANTACEÆ. (Amaranth Family).

AMARANTUS, Tourn.

- A. Hypochondriacus, L.
- A. retroflexus, L. Common.
- A. albus, L.

POLYGONACEÆ. (Buckwheat Family).

POLYGONUM, L.

- P. orientale, L. Prince's Feather. Escaped cultivation.
- P. Pennsylvanicum, L.
- P. Persicaria, L. Lady's Thumb.
- P. Hydropiper, L. Common Smartweed.
- P. acre, H. B. K. Water Smartweed.
- P. hydropiperoides, Michx. Wild Water Pepper.
- P. Virginianum, L. Common.
- P. aviculare, L. Knotgrass. Goosegrass. Doorweed. Very common.
- P. erectum, L. Common.
- P. sagittatum, L. Arrow-leaved. Tear Thumb.
- P. dumetorum, L. var. scandens, Gr. Climbing False Buckwheat. Common.

FAGOPYRUM, Tourn.

- F. esculentum, Mœnch. Buckwheat. Escaped cultivation.

RUMEX, L.

- R. Britannica, L. (R. orbicularis, Gr.) Great Water Dock.
- R. crispus, L. Curled Dock. Common.
- R. obtusifolius, L. Bitter Dock.
- R. Acetosella, L. Field or Sheep Sorrel. Common in cultivated fields.

LAURACEÆ. (Laurel Family).

SASSAFRAS, Nees.

- S. officinale, Nees. Sassafras. Common.

LINDERA, Thunberg.

- L. Benzoin, Meisner. Spicebush. Benjamin-Bush. Common.

THYMELEACEÆ. (Mezereum Family).

DIRCA, L.

- D. palustris, L. Leatherwood. Moosewood.

SANTALACEÆ. (Sandalwood Family).

COMANDRA, Nutt.

- C. umbellata, Nutt. Bastard Toad-flax. Not common.

EUPHORBIACEÆ. (Spurge Family).

EUPHORBIA, L.

- E. maculata, L. Common.
- E. hypercifolia, L.
- E. marginata, Pursh. Escaped cultivation.
- E. corollata, L. Not common.
- E. dentata, Michx.
- E. commutata, Engelm. Common.

ACALYPHIA, L.

- A. Virginica, L. Three-seeded Mercury. Common.

CROTONOPSIS, Michx.

- C. linearis, Michx. Common.

URTICACEÆ. (Nettle Family).

ULMUS, L.

- U. fulva, Michx. Slippery or Red Elm. Common.
- U. Americana, L. American or White Elm. Common.
- U. racemosa, Thomas. Corky White Elm. Frequent.

CELTIS, Tourn.

- C. occidentalis, L. Sugarberry. Hackberry. Common.

MORUS, Tourn.

- M. rubra, L. Red Mulberry.
- M. alba, L. White Mulberry.

MACLURA, Nutt.

M. *aurantiaca*, Nutt. Osage Orange. Frequent.

URTICA, Tourn.

U. *gracilis*, Ait. Nettle.

U. *dioica*, L.

LAPORTIA, Gaudichard.

L. *Canadensis*, Gaudichard. Wood Nettle. Common in rich woods.

PILEA, Lindl.

P. *pumila*, Gr. Richweed. Clearweed.

BOEHMERIA, Jacq.

B. *cylindrica*, Willd. False Nettle. Common.

CANNABIS, Tourn.

C. *sativa*, L. Hemp.

HUMULUS, L.

H. *Turpulus*, L. Common Hop.

PLATANACEÆ. (Plane-tree Family).

PLATANUS, L.

P. *occidentalis*, L. American Plane or Sycamore.

JUGLANDACEÆ. (Walnut Family).

JUGLANS, L.

J. *cinerea*, L. Butternut.

J. *nigra*, L. Black Walnut.

CARYA, Nutt.

C. *olivæformis*, Nutt. Pecan nut. Escaped cultivation. Rare.

C. *alba*, Nutt. Shellbark or Shagbark Hickory. Very common.

C. *microcarpa*, Nutt. Small-fruited Hickory. Not common.

C. *sulcata*, Nutt. Western Shellbark Hickory. Frequent.

C. *tomentosa*, Nutt. Mockernut. White-heart Hickory. Common.

C. *porcina*, Nutt. Pig-nut Hickory. Very common on uplands.

C. *amara*, Nutt. Bitter Pig-nut Hickory. Common.

CUPULIFERÆ. (Oak Family).

QUERCUS, L.

Q. *alba*, L. White Oak. Very common.

Q. *macrocarpa*, Michx. Bur Oak. Mossy-cup White Oak. Common on rich soil.

Q. *bicolor*, Willd. Swamp White Oak. Frequent on low grounds.

Q. *Prinus*, L. Chestnut Oak. Rare.

- Q. *Prinus*, L. var. *acuminata*, Michx. Yellow Chestnut Oak.
Common on rich soil.
- Q. *imbricaria*, Michx. Laurel or Shingle Oak.
- Q. *coccinea*, Wang. Scarlet Oak. Frequent.
- Q. *coccinea*, Wang. var. *tinctoria*, Gr. Yellow-barked or Black Oak. Common.
- . Q. *rubra*, L. Red Oak. Common.
- Q. *palustris*, Du Roi. Swamp, Spanish or Pin Oak. Common on wet land.

FAGUS, Tourn.

- F. *ferruginea*, Ait. American Beech. Common.

CORYLUS, Tourn.

- C. *Americana*, Walt. Wild Hazel-nut. Frequent.

OSTYRA, Micheli.

- O. *Virginica*, Willd. American Hop-Hornbeam. Leverwood.

CARPINUS, L.

- C. *Americana*, Michx. Blue or Water Beech. American Hornbeam.

SALICACEÆ. (Willow Family).

SALIX, Tourn.

- S. *discolor*, Muhl. Glaucus Willow.
- S. *purpurea*, L. Purple Willow.
- S. *viminalis*, L. Basket Osier.
- S. *nigra*, Marsh. Black Willow.
- S. *alba*, L. var. *vitellina*, Gr. White Willow. Yellow Willow.
- S. *Babylonica*, Tourn. Weeping Willow.

POPULUS, Tourn.

- P. *tremuloides*, Michx. American Aspen. Common.
- P. *Grandidentata*, Michx. Large-toothed Aspen.
- P. *Monilifera*, Ait. Cottonwood. Necklace Poplar. Very common.
- P. *balsamifera*, L. var. *candicans*, Gr. Balm of Gilead.
- P. *dilatata*, Ait. Lombard Poplar.
- P. *alba*, L. White Poplar. Silver Poplar.

CONIFERÆ. (Pine Family).

JUNIPERUS, L.

- J. *Virginiana*, L. Red Cedar. Frequent.

ORDER PROTEIDA (THE PROTEANS.)

FAMILY PROTEIDÆ. THE MUD PUPPES,

NECTURUS RAINESQUE. MUD PUPPES.

N. maculatus *Rainesque.* MINOBANCHUS; MUD PUPPY; WATER DOG.

Not unfrequently taken in the streams of the county.

THE FLORA OF FRANKLIN COUNTY.—ENDOGENS.

BY O. M. MEYCKE.

ARACEÆ. ARUM FAMILY.

ARISEMA. MARTIUS.

A. tryphillum *Torr.* INDIAN TURNIP. Common.

A. draconium *Schott.* GREEN DRAGONS.

SYMPLOCARPUS. SALISB.

S. foetidus *Sib.* SKUNK CABBAGE. Ripe.

ACORUS L.

A. Calamus *L.* SWEET FLAG; CALAMUS. Common.

TYPHACEÆ. CAT TAIL FAMILY.

TYPIA. TOURNE.

T. latifolia *L.* Common Cat-tail or Reed-mace.

ALISMACEÆ. WATER PLANTAIN FAMILY.

ALISMA. L.

A. Plantago *L.* VAR. AMERICANA *Gray.* WATER PLANTAIN. Not common.

SAGITTARIA. L.

S. variabilis *Engelm.* ARROW-HEAD. Common.

ORCHIDACEÆ. ORCHIS FAMILY.

ORCHIS. L.

O. spectabilis *L.* SNOWY ORCHIS. Frequent.

SPIRANTHES. RICHARD.

S. gracilis *Bigelow.* LADY'S TRESSES. Not common.

LIPARIS. RICHARD.

L. liliifolia *Richard.* TWAYBLADE. Not common.

CORALLORHIZA. HALLER.

C. odontorhiza Nutt. CORAL-ROOT. Rare.

APLECTRUM. NUTT.

A. hyemale Nutt. PUTTY-ROOT; ADAM-AND-EVE. Common.

CYPRIPEDIUM. L.

C. pubescens Willd. LARGE YELLOW LADY'S SLIPPER. Becoming rare.

AMARYLLIDACEÆ. AMARYLLIS FAMILY.

HYPOXIS. L.

H. erecta L. STAR-GRASS. Not rare.

IRIDACEÆ. IRIS FAMILY.

IRIS. L.

I. versicolor L. LARGE BLUE FLAG.

PARDANTHUS. KER.

P. chrysanthus Ker. BLACKBERRY LILY. Escaped cultivation.

SISYRINCHIUM. L.

S. Bermudiana L. BLUE-EYED GRASS. Frequent.

DIOSCOREACEÆ. YAM FAMILY.

DIOSCOREA. PLUMIER.

D. villosa L. WILD YAM-ROOT. Not rare.

SMILACEÆ. SMILAX FAMILY.

SMILAX. Tourn.

S. rotundifolia L. COMMON GREENBRIER.**S. herbacea** L. CARRION FLOWER. Frequent.

LILIACEÆ. LILY FAMILY.

TRILLIUM. L.

T. sessile L. Common.**T. recurvatum** Beck. Common.**T. erectum** L. var. *declinatum* Gray.**T. cernuum** L. NODDING TRILLIUM, OR WAKE ROBIN. Frequent.

MELANTHIUM. GRONOR L.

M. virginicum L. BUNCH FLOWER. Frequent.

UVULARIA. L.

U. grandiflora Smith. Frequent.**U. perfoliata** L.

SMILACINA. DESF.

S. racemosa Desf. FALSE SPIKENARD. Common.**S. stellata** Desf. Not rare.

POLYGONATUM. — Tourn.

P. biflorum Ell. SMALLER SOLOMON'S SEAL.

P. giganteum Dietrich. GREAT SOLOMON'S SEAL. Common.

ASPARAGUS. — L.

A. officinalis L. ASPARAGUS. Escaped cultivation.

LILIUM. — L.

L. canadense L. WILD YELLOW LILY. Rare.

L. superbum L. TURKS-CAP LILY. Frequent.

ERYTHRONIUM. — L.

E. Americanum Smith. YELLOW ADDERS-TONGUE. Common.

E. albidum Nutt. Frequent.

SCILLA. — L.

S. Fraseri Gray. EASTERN GUAMASH: WILD HYACINTH. Frequent.

ALLIUM. — L.

A. cernuum Roth. WILD ONION. Frequent.

A. vineale L. FIELD GARLIC.

A. canadense Kalm. WILD GARLIC.

JUNCACE.E. RUSH FAMILY.

LUZULA. — DC.

L. campestris DC. WOOD RUSH. Common.

JUNCUS. — L.

J. effusus L. COMMON OR SOFT RUSH.

J. marginotus Rostkovius. Frequent.

J. tenuis Willd.

COMMELYNACE.E. SPIDERWORT FAMILY.

TRADESCANTIA. — L.

T. virginica L. COMMON SPIDERWORT.

T. pilosa Lehm.

CYPERACE.E. SEDGE FAMILY.

CYPERUS. — L. GALINGALE.

C. diandrus Torr. Common.

C. plumatodes Muhl.

C. strigosus L. Common.

ELEOCHARIS. — R. Br.

E. obtusa Schultes. Very common.

E. palustris R. Br. Very common.

E. intermedia Schultes.

E. acicularis R. Br.

SCIRPUS. L. BUL-RUSH OR CLUB-RUSH.

S. pungens Vahl. Common.*S. polyphyllus* Vahl. Frequent.*S. lineatus* Michx. Common.

CAREX. L.

C. Studelii Knuth. Common.*C. rosea* Schk.*C. lagopodioides* Schk. Frequent.*C. cristata* Schk. var. *mirabilis* Boot.*C. straminea* Schk. var. *festucacea* Gray. Common.*C. laxiflora* Lam. var. *plantaginea* Boot. var. *blanda* Gray. var. *latifolia* Boot. Common.*C. oligocarpa* Schk.*C. Pennsylvanica* Lam.*C. varia* Muhl.

GRAMINÆ. GRASS FAMILY.

LEERSIA. SOLANDER.

L. Virginica Willd. WHITE GRASS. Frequent.*L. oryzoides* Swartz. RICE CUT-GRASS.

PHELUM. L.

P. pratense L. TIMOTHY GRASS. Escaped cultivation.

AGROSTIS. L.

A. vulgaris With. RED-TOP. Very common.*A. alba* L. WHITE BENT-GRASS.

CINNA. L.

C. arundinacea L. WOOD REED GRASS. Frequent.

MUHLENBERGIA. SCHREBER.

M. Mexicana Trin. DROP-SLED GRASS. Common.

ELEUSINE. GERTN.

E. Indica Gertn. CRAB GRASS; YARD GRASS. Common.

DACTYLIS. L.

D. Glomerata L. ORCHARD GRASS. Escaped.

GLYCESIA. R. BR.

G. nervata Trin. FOWL MEADOW GRASS. Frequent.

POA. L.

P. annua L. LOW SPEER GRASS. Frequent.*P. compressa* L. WIRE GRASS. Common.*P. pratensis* L. KENTUCKY BLUE GRASS. Abundant.

ERAGROSTIS. — BEAUV.

- E. uptaus** Beauv. — Frequent.
E. poæoides Beauv. var. **megastachya** Gray.
E. pectinacea Gray. var. **spectabilis** Gray. — Common.

BROMUS. — L.

- B. secalinus** L. — CHEAT OR CHESS. — Common.
B. ciliatus L. var. **purgans** Gray. — HAIRY CHESS.

ELYMUS. — L.

- E. Virginicus** L. — WILD RYE. — Common.
E. canadensis L. — WILD RYE. — Frequent.

GYMNOSTICHUM. — SCHREB.

- G. Hystrix** Schreb. — BOTTLE-BRUSH GRASS.

PANICUM. — L.

- P. sanguinale** L. — COMMON CRAB OR FINGER GRASS.
P. proliferum Lam. — Frequent.
P. capillare L. — OLD-WITCH GRASS. — Very common.
P. latifolium L. — Common.
P. dichotomum L.
P. crus-galli L. — BARN-YARD GRASS.

SETARIA. — BEAUV.

- S. glauca** Beauv. — FOXTAIL. — Common.
S. viridis Beauv. — GREEN FOXTAIL.

CENCHUS. — L.

- C. tribuloides** L. — HEDGEHOG OR BUR-GRASS. — Common.

FOSSIL CORALS OF FRANKLIN COUNTY, INDIANA.

By DAVID R. MOORE.

The distribution of Fossil Corals in Franklin County is confined to the Lower and Upper Silurian ages, and Devonian drift.

For variety in genera and species the large area of the Lower Silurian presents an interesting field.

A few Upper Silurian representatives are found in the localities of outcrops of that age.

Representatives from the Devonian drift form no inconsiderable part of the Palaeontology of the County.

The following list is far from exhaustive; but indicative of the extent and variety of ancient Coral life within the bounds of the County; also of progress so far made in the discovery and determination of genera and species.

As Curator of Geology, and especially in the work of preparing this list, I am indebted to other members of the Society for valuable aid.

The authorities exclusively depended upon for descriptions and nomenclature are the Palaeontology of Ohio, Vol. II.; and the Indiana Geological Reports of 1881-82.

LOWER SILURIAN.

GENUS CHETETES.

Chætetes dælii, *Edwards and Haine*. Common.

- **approximatus**, *Nich.*
- **pulchellus**, *Edwards and Haine*.
- **subpulchellus**, *Nich.*
- **discoideus**, *Jones*.
- **newberryi**, *Nich.*
- **frondosus**, *D'Orb.*
- **ortoni**, *Nich.*
- **corticans**, *Nich.* Parasitic.

GENUS FAVISTELLA.

Favistella stellata, *Hall*.

GENUS CONSTELLARIA.

Constellaria antheloidea, *Hall*. Rare.



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